

Henrique de Amorim Almeida

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

831
citations

623734

14
h-index

526287

27
g-index

79
all docs

79
docs citations

79
times ranked

989
citing authors

#	ARTICLE	IF	CITATIONS
1	Developing lasts with removable toe parts for customized footwear. Communications in Development and Assembling of Textile Products, 2022, 3, 28-41.	0.4	1
2	Industry 4.0 for fashion products – Case studies using 3D technology. IOP Conference Series: Materials Science and Engineering, 2021, 1031, 012039.	0.6	7
3	Industry 4.0 for Sustainable Production in Footwear Industry. , 2021, , 699-707.		2
4	Optimization of shoe sole design according to individual feet pressure maps. Computers in Industry, 2021, 125, 103375.	9.9	7
5	Sustainable Water Package: Technical Analysis Versus Consumer Perception. , 2021, , 859-873.		1
6	Current and Future Trends of 3D Food Printing. , 2021, , 258-267.		0
7	Biomimetic Boundary-Based Scaffold Design for Tissue Engineering Applications. Methods in Molecular Biology, 2021, 2147, 3-18.	0.9	7
8	A review on the use of additive manufacturing to produce lower limb orthoses. Progress in Additive Manufacturing, 2020, 5, 85-94.	4.8	26
9	Structural optimisation for medical implants through additive manufacturing. Progress in Additive Manufacturing, 2020, 5, 95-110.	4.8	14
10	3D Printing: An Innovative Technology for Customised Shoe Manufacturing. Lecture Notes in Mechanical Engineering, 2020, , 171-180.	0.4	2
11	AM Tooling for the Mouldmaking Industry. Lecture Notes in Mechanical Engineering, 2020, , 162-170.	0.4	0
12	Additive Technologies in the Medical Field for 2030. Lecture Notes in Mechanical Engineering, 2020, , 20-27.	0.4	0
13	Expectations of Additive Manufacturing for the Decade 2020–2030. Lecture Notes in Mechanical Engineering, 2020, , 10-19.	0.4	3
14	Additive Manufacturing Systems for Medical Applications: Case Studies. , 2019, , 187-209.		7
15	Impact of additive technologies in the health sector for 2030. , 2019, , .		0
16	Using Augmented Reality in Patients with Autism: A Systematic Review. Lecture Notes in Computational Vision and Biomechanics, 2019, , 454-463.	0.5	26
17	Layer Thickness Evaluation Between Medical Imaging and Additive Manufacturing. Lecture Notes in Computational Vision and Biomechanics, 2019, , 693-701.	0.5	0
18	Anthropometrics and Ergonomics in Pregnant Women. Lecture Notes in Computational Vision and Biomechanics, 2018, , 97-108.	0.5	1

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19	Mathematical Modeling of 3D Tissue Engineering Constructs. , 2018, , 223-252.		0
20	The Role of Ultrasound Imaging of Musculotendinous Structures in the Elderly Population. Lecture Notes in Computational Vision and Biomechanics, 2018, , 27-38.	0.5	1
21	A study of 4D printing and functionally graded additive manufacturing. Assembly Automation, 2017, 37, 147-153.	1.7	44
22	Medical devices: from design to production. Advances in Mechanical Engineering, 2017, 9, 168781401772989.	1.6	0
23	Mathematical Modeling of 3D Tissue Engineering Constructs. , 2017, , 1-30.		1
24	Sustainability in extrusion-based additive manufacturing technologies. Progress in Additive Manufacturing, 2016, 1, 65-78.	4.8	26
25	Sustainability Based on Biomimetic Design Models. Environmental Footprints and Eco-design of Products and Processes, 2016, , 65-84.	1.1	2
26	Sustainable Impact Evaluation of Support Structures in the Production of Extrusion-Based Parts. Environmental Footprints and Eco-design of Products and Processes, 2016, , 7-30.	1.1	12
27	Production and Characterisation of PCL/ES Scaffolds for Bone Tissue Engineering. Materials Today: Proceedings, 2015, 2, 208-216.	1.8	16
28	Tensile and Shear Stress Evaluation of Schwartz Surfaces for Scaffold Design. Procedia Engineering, 2015, 110, 167-174.	1.2	6
29	Combined Elastic and Shear Stress Solicitations for Topological Optimisation of Micro-CT Based Scaffolds. Procedia Engineering, 2015, 110, 159-166.	1.2	3
30	Permeability Evaluation of Flow Behaviors Within Perfusion Bioreactors. Mechanisms and Machine Science, 2015, , 761-768.	0.5	0
31	Open Source Software for the Automatic Design of Scaffold Structures for Tissue Engineering Applications. Procedia Technology, 2014, 16, 1542-1547.	1.1	26
32	BodyShifter " Software to Determine and Optimize an Individual's Somatotype. Procedia Technology, 2014, 16, 1456-1461.	1.1	6
33	PCL/Eggshell Scaffolds for Bone Regeneration. , 2014, , .		2
34	Perfusion Bioreactor Fluid Flow Optimization. Procedia Technology, 2014, 16, 1238-1247.	1.1	5
35	Segmentation Algorithms for Thermal Images. Procedia Technology, 2014, 16, 1560-1569.	1.1	58
36	Design of tissue engineering scaffolds based on hyperbolic surfaces: Structural numerical evaluation. Medical Engineering and Physics, 2014, 36, 1033-1040.	1.7	71

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37	Computer modelling and simulation of a bioreactor for tissue engineering. International Journal of Computer Integrated Manufacturing, 2014, 27, 946-959.	4.6	7
38	Topological Shear Stress Optimisation of Micro-CT Based Scaffolds. , 2014, , .		0
39	Numerical Calculations in Tissue Engineering. , 2014, , .		0
40	Relationship between implant primary stability (torque and ISQ) and bone density assessed by CBCT clinical trial. , 2014, , 141-146.		0
41	Fracture resistance of single-tooth implant-supported. , 2014, , 147-152.		0
42	Numerical simulations of bioextruded polymer scaffolds for tissue engineering applications. Polymer International, 2013, 62, 1544-1552.	3.1	16
43	Permeability Evaluation of Lay-down Patterns and Pore Size of Pcl Scaffolds. Procedia Engineering, 2013, 59, 255-262.	1.2	14
44	Topological Optimisation of Scaffolds for Tissue Engineering. Procedia Engineering, 2013, 59, 298-306.	1.2	21
45	Numerical Simulation of Polymeric Extruded Scaffolds Under Compression. Procedia CIRP, 2013, 5, 236-241.	1.9	3
46	Biofabrication of Hydrogel Constructs. Advances in Predictive, Preventive and Personalised Medicine, 2013, , 225-254.	0.6	7
47	Additive manufacturing techniques for scaffold-based cartilage tissue engineering. Virtual and Physical Prototyping, 2013, 8, 175-186.	10.4	33
48	Evaluating the impact of glass and PET packaging for bottled water. , 2013, , 345-350.		2
49	Biofabrication of three-dimensional scaffolds of polycaprolactone with eggshell powder for bone regeneration. , 2013, , 171-176.		1
50	Computational technologies in tissue engineering. WIT Transactions on Biomedicine and Health, 2013, , .	0.0	5
51	Rapid construction with functionally graded designs. , 2013, , 545-550.		0
52	Nano CAD design of scaffolds based on triple periodic surfaces. , 2013, , 497-502.		0
53	Overview on additive manufacturing techniques for scaffold-based cartilage tissue engineering. , 2013, , 127-136.		0
54	Micro-CT based topological optimisation scheme for the design of scaffolds. , 2013, , 577-582.		0

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55	A Decision Tool for Green Manufacturing While Utilizing Additive Process. , 2012, , .		3
56	Additive Manufacturing in Jewellery Design. , 2012, , .		9
57	Structural and Vascular Analysis of Tissue Engineering Scaffolds, Part 2: Topology Optimisation. Methods in Molecular Biology, 2012, 868, 209-236.	0.9	8
58	Structural and Vascular Analysis of Tissue Engineering Scaffolds, Part 1: Numerical Fluid Analysis. Methods in Molecular Biology, 2012, 868, 183-207.	0.9	8
59	CELL MECHANOBIOLOGY DESIGN OF SCAFFOLDS BASED ON HYPERBOLIC SURFACES. Journal of Biomechanics, 2012, 45, S663.	2.1	0
60	Integrated strategy for sustainable product development. , 2011, , 807-812.		1
61	External breast radiotherapy treatment planning verification using advanced anthropomorphic phantoms. , 2011, , 355-358.		0
62	In vitro method for test and measure the accuracy of implant impression. , 2011, , 343-346.		0
63	Comparison of bone remodeling algorithms for hip implants. , 2011, , 725-729.		0
64	Evaluation of different fitting algorithms using CMM and white fringe projection systems. , 2011, , 263-271.		0
65	Virtual topological optimisation of scaffolds for rapid prototyping. Medical Engineering and Physics, 2010, 32, 775-782.	1.7	81
66	The Use of Schwartz Geometries for Scaffold Design in Tissue Engineering Applications. , 2010, , .		0
67	Rapid prototyping and manufacturing for tissue engineering scaffolds. International Journal of Computer Applications in Technology, 2009, 36, 1.	0.5	60
68	Biomanufacturing for tissue engineering: Present and future trends. Virtual and Physical Prototyping, 2009, 4, 203-216.	10.4	129
69	The use of periodic minimal surfaces for scaffolds design. , 2009, , .		0
70	Computer Simulation and Optimisation of Tissue Engineering Scaffolds: Mechanical and Vascular Behaviour. , 2008, , .		10
71	Advanced Processes to Fabricate Scaffolds for Tissue Engineering. , 2008, , 149-170.		21
72	Design of scaffolds with computer assistance. WIT Transactions on Biomedicine and Health, 2007, , .	0.0	5

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73	Innovative Developments in Virtual and Physical Prototyping. , 0, , .		3